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& Sajovec, I

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- (71) Applicant (for all designated States except US): NOBEX CORPORATION [US/US]; P.O. Box 13940, Research Triangle Park, NC 27709-3940 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (for US only): SOLTERO, Richard [US/US]; 5509 Solomon's Seal Court, Holly Springs, NC 27540 (US). EKWURIBE, Nnochiri, N. [NG/US]; 216 Coltsgate Dr., Cary, NC 27511 (US). OPAWALE, Foyeke [US/US]; 4351 Southwind Drive, Raleigh, NC 27613 (US). REHLAENDER, Bruce [US/US]; 604 Highgrove Drive, Chapel Hill, NC 27516 (US). HICKEY, Anthony [GB/US]; 1208 Killington Court, Chapel Hill, NC 27517 (US). BOVET, Li, Li [—/—]; 110 Marin Drive, Chapel Hill, NC 27516 (US).

- (74) Agent: STRICKLAND, J., Michael; Myers Bigel Sibley & Sajovec, PO Box 37428, Raleigh, NC 27627 (US).
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- (88) Date of publication of the international search report:
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: PHARMACEUTICAL COMPOSITIONS OF DRUG-OLIGOMER CONJUGATES AND METHODS OF TREATING DISEASES THEREWITH

(57) Abstract: Pharmaceutical compositions that include a drug-oligomer conjugate, a fatty acid component, and a bile salt component are described. The drug is covalently coupled to an oligomeric moiety. The fatty acid component and the bile salt component are present in a weight-to-weight ratio of between 1:5 and 5:1. Methods of treating diseases in a subject in need of such treatment using such pharmaceutical compositions are also provided, as are methods of providing such pharmaceutical compositions.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/28536

A. CLASSIFICATION OF SUBJECT MATTER  IPC(7) : C07J 9/00; A61K 38/03, 38/04, 38/16; C07K 14/585  US CL : 552/549, 550; 554/1, 35; 514/2, 808; 530/307, 324						
According to International Patent Classification (IPC) or to both national classification and IPC  B. FIELDS SEARCHED						
Minimum documentation searched (classification system followed by classification symbols) U.S.: 552/549, 550; 554/1, 35; 514/2, 808; 530/307, 324						
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched none						
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) Please See Continuation Sheet						
C. DOC	UMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where ap	propriate,	of the relevant passages	Relevant to claim No.		
Α	US 5,693,609 A (BAKER et al.) 02 December 1997	(02.12.19	97), see entire document,	1-4		
A	especially, column 3-4. US 6,255, 502 B1 (PENKLER et al.) 03 July 2001 (03.07.2001), see entire document, especially column 3-4.			1-4		
Furthe	r documents are listed in the continuation of Box C.		See patent family annex.			
• :	Special categories of cited documents:	"T"	later document published after the into date and not in conflict with the applic			
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establish specified	at which may throw doubts on priority claim(s) or which is cited to the publication date of another citation or other special reason (as s)  at referring to an oral disclosure, use, exhibition or other means	<b>-</b> Y*	document of particular relevance; the considered to involve an inventive ste- combined with one or more other suc- being obvious to a person skilled in the	p when the document is h documents, such combination		
l .		*&*	document member of the same patent			
*P* document published prior to the international filing date but later than the priority date claimed		_				
Date of the actual completion of the international search		Date of n	Date of mailing of the international search report  1.2 SEP 2003			
12 June 2003 (12.06.2003)			1 65 2			
Name and mailing address of the ISA/US  Mail Stop PCT, Attn: ISA/US  Commissioner for Patents  P.O. Box 1450  Alexandria, Virginia 22313-1450		Authorized officer Anish Gupta  Telephone No. 703-308-0196				
Facsimile No. (703)305-3230						

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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US02/28536

Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)				
This international report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:				
1. Claim Nos.: because they relate to subject matter not required to be searched by this Authority, namely:				
2. Claim Nos.:  because they relate to parts of the international application that do not comply with the prescribed requirements of such an extent that no meaningful international search can be carried out, specifically:	O			
3. Claim Nos.: 5-49 because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).				
Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)				
This International Searching Authority found multiple inventions in this international application, as follows:				
As all required additional search fees were timely paid by the applicant, this international search report covers al searchable claims.				
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invit payment of any additional fee.	<b>;</b>			
As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:				
4. No required additional search fees were timely paid by the applicant. Consequently, this international search repis restricted to the invention first mentioned in the claims; it is covered by claims Nos.:	ort			
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.				

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INTERNATIONAL SEARCH REPORT	
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Continuation of B. FIELDS SEARCHED Item 3:	
CAS ONLINE, WPIDS, EAST, EMBASE, MEDLINE	
CAS ONLINE, WPIDS, EAST, EMBASE, MEDLINE search terms: oligomer, bile, fatty, peptide, calcitonin, insulin	

Form PCT/ISA/210 (second sheet) (July 1998)